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JUL 05 2006

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (original) A process comprising:
  - (a) contacting a fuel stream containing organosulfur impurities with an organic hydroperoxide in the presence of an oxidation catalyst to form an oxidized fuel stream, wherein a substantial portion of the organosulfur impurities are converted into sulfones and a substantial portion of the organic hydroperoxide is converted into an alcohol;
  - (b) removing the alcohol from the oxidized fuel stream to form an alcohol-reduced oxidized fuel stream; and
  - (c) extracting the sulfones from the alcohol-reduced oxidized fuel stream by solid-liquid extraction using a sulfone adsorbent.
2. (original) The process of claim 1 wherein the organic hydroperoxide is t-butyl hydroperoxide and the alcohol is t-butyl alcohol.
3. (original) The process of claim 1 wherein the oxidation catalyst is a titanium-containing silicon oxide catalyst.
4. (original) The process of claim 3 wherein the titanium-containing silicon oxide catalyst is titania-on-silica.
5. (original) The process of claim 1 wherein the alcohol is removed by distillation.
6. (original) The process of claim 1 wherein the sulfone adsorbent is selected from the group consisting of silicas, aluminas, and silica-aluminas.
7. (original) A process comprising:
  - (a) extracting organonitrogen impurities from a fuel stream containing organonitrogen and organosulfur impurities whereby the nitrogen

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content of fuel stream is reduced by at least 50 percent to produce a fuel stream having a reduced amount of organonitrogen impurities;

- (b) separating and recovering the fuel stream having a reduced amount of organonitrogen impurities;
- (c) contacting the separated fuel stream having a reduced amount of organonitrogen impurities with an organic hydroperoxide in the presence of a titanium-containing silicon oxide catalyst to form an oxidized fuel stream, wherein a substantial portion of the organosulfur impurities are converted into sulfones and a substantial portion of the organic hydroperoxide is converted into an alcohol;
- (d) removing the alcohol from the oxidized fuel stream to form an alcohol-reduced oxidized fuel stream; and
- (e) extracting the sulfones from the alcohol-reduced oxidized fuel stream by solid-liquid extraction using a sulfone adsorbent.

8. (original) The process of claim 7 wherein the organonitrogen impurities are extracted by solid-liquid extraction using at least one organonitrogen adsorbent.

9. (original) The process of claim 8 wherein the organonitrogen adsorbent is selected from the group consisting of aluminum oxide, silicon oxide, silica-alumina, zeolite Y, Zeolite X, ZSM-5, magnesium oxide, and sulfonic acid resin.

10. (original) The process of claim 7 wherein the organonitrogen impurities are extracted by liquid-liquid extraction using at least one polar solvent.

11. (original) The process of claim 10 wherein the polar solvent is selected from the group consisting of a C<sub>1</sub>-C<sub>4</sub> alcohol, a C<sub>3</sub>-C<sub>8</sub> ketone, water, and mixtures thereof.

12. (original) The process of claim 10 wherein the polar solvent is a mixture of methanol and water.

13. (original) The process of claim 7 wherein the organic hydroperoxide is t-butyl hydroperoxide and the alcohol is t-butyl alcohol.

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14. (original) The process of claim 7 wherein the titanium-containing silicon oxide catalyst is titania-on-silica.

15. (original) The process of claim 7 wherein the alcohol is removed by distillation.

16. (original) The process of claim 1 wherein the sulfone adsorbent is selected from the group consisting of silicas, aluminas, and silica-aluminas.

17. (cancelled)

18. (cancelled)